# EXHIBIT #2

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
11/462,152	08/03/2006	042933/313925	4832		
826 ALSTON & BI	7590 03/24/201 RD LLP	EXAM	IINER		
BANK OF AMERICA PLAZA 101 SOUTH TRYON STREET, SUITE 4000 CHARLOTTE, NC 28280-4000			VO, TUYEN KIM		
			ART UNIT	PAPER NUMBER	
			2887		
			MAIL DATE	DELIVERY MODE	
			03/24/2010	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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		Application No.	Applicant(s)		
		11/462,152	BURIAN ET AL.		
	Office Action Summary	Examiner	Art Unit		
		Tuyen Kim Vo	2887		
Period fo	The MAILING DATE of this communication app	-	orrespondence address		
	• •	VIO OET TO EVEIDE AMONTHU	C) OD THIDTY (20) DAYO		
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATES as ions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	Lely filed the mailing date of this communication. (35 U.S.C. § 133).		
Status					
1)	Responsive to communication(s) filed on				
-		action is non-final.			
3)	Since this application is in condition for allowar		secution as to the merits is		
·	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	i3 O.G. 213.		
Dispositi	on of Claims				
_	Claim(s) <u>1-41</u> is/are pending in the application.				
· ·	4a) Of the above claim(s) is/are withdrav	vn from consideration.			
	Claim(s) is/are allowed.				
′=	Claim(s) <u>1-41</u> is/are rejected.				
7)	Claim(s) is/are objected to.				
8)□	Claim(s) are subject to restriction and/or	election requirement.			
Applicati	on Papers				
	· The specification is objected to by the Examine	r			
′—	The drawing(s) filed on <u>03 August 2006</u> is/are:		o by the Examiner.		
. ۷/۵	Applicant may not request that any objection to the	· - · · · · · · ·	•		
	Replacement drawing sheet(s) including the correcti				
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119					
12) 🗆	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:					
, <b>-</b>	1.☐ Certified copies of the priority documents have been received.				
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* 8	See the attached detailed Office action for a list of	of the certified copies not receive	d.		
Attachmen		🗖 .			
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) ☐ Interview Summary Paper No(s)/Mail Da			
3) 🔯 Inform	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date 03/20/2008 & 10/05/2006.	5) Notice of Informal P 6) Other:			

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#### **DETAILED ACTION**

#### Claim Objections

1. Claims 10, 22 and 36 are objected to because of the following informalities:

Re claims 10 and 36, the recitation of "an object" in line 3 suggests to change to - the object - -.

Re claim 22, the recitation of "an object" in line 4 suggests to change to - - - the object - -.

Appropriate corrections are required.

### Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-6, 8-11, 13-18, 20-23, 25-30, 33-37, 40 and 41 are rejected under 35 U.S.C. 102(b) as being anticipated by Zhu et al. (US 2005/0103858).

Re claims 1, 13, 25 and 41, Zhu teaches a method, a computer program product and an apparatus comprising at least one computer-readable storage medium having computer-readable program code portion stored therein, the computer-readable program code portion comprising (fig. 4I1-4I3, 26A and 26B): first executable portion for processing an input image (captured image data frame) for an attempt to decode the input image using a current barcode reading method (fig. 2A2); a second executable portion for determining whether the processing of the input image is successful ([345],

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[353], [504], [510] and [513]); a third executable portion for switching to one of a different barcode reading method ([0058], [0060], [0061], [0066], [0067], [0489] and [0490]) or processing a new frame of the input image using the current barcode reading method in response to the processing of the input image being unsuccessful; a fourth executable portion for attempting a decode of the input image using the current barcode reading method in response to the processing of the input image being successful ([0465], [0513], [0516], [0519], [0540] and [0547]); a fifth executable portion for performing a switch to a different barcode reading method in response to a failure of the attempt to decode the input image using the current barcode reading method ([0058], [0060] [0061], [0063], [0066], [0067], [0484], [0489], [0490] and [0493]).

Re claims 2, 14 and 26, Zhu further teaches the first executable portion includes instruction for determining a region of interest (ROI) defining an area in which a barcode is expected (see fig. 17A, [0060], [0063], [0066]-[0067] and [0392]-[0395]).

Re claims 3, 15 and 27, Zhu further teaches the first executable portion includes instructions for correcting the ROI (see fig. 18E and [0181], [0419], [0428]).

Re claims 4, 16 and 28, Zhu further teaches the first executable portion includes instructions for correcting corner positions of the ROI based on a degree of overlap between barcode and segment of a border of the ROI which are adjacent to each respective corner (see figs. 18D-18G; [0183], [0194], [0315], [0392], [0418], [0420], [0432], [0456] and [0478]).

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Re claims 5, 17 and 29, Zhu further teaches the first executable portion includes instructions for re-sampling and geometric image correction (see fig. 18E; [0419]-[0428] and [0452]).

Re claims 6, 11, 18, 23, 30 and 37, Zhu teaches hand-supportable digital image-based bar code symbol reader that is processing image digitally which includes a binarization element that binarizing the ROI or the input image (see [0173], [0224], [0247] [0289], [0377] and [0380]).

Re claims 8, 20 and 33, Zhu further teaches a sixth executable portion for performing a determination as to whether the input image includes one of a one dimensional (1D) barcode or a two dimensional (2D) barcode (see [0003], [0045], [0048]).

Re claims 9, 21 and 34, Zhu further teaches comprising a seventh executable portion for determining a type of barcode (see fig. 14).

Re claims 10, 22 and 36, Zhu further teaches wherein the sixth executable portion includes instructions for performing the determination based on a relationship between a first length of an object oriented in a first direction (such as X-coordinate) and second length of the object oriented in a second direction (Y-coordinate) that is substantially perpendicular to the first direction (see [0398]-[0418]).

Re claim 35, Zhu further teaches the classification is configured to determine the type of barcode based on a comparison of geometric patterns within the barcode to a known specification (see fig. 14 and [0058]-[0066]).

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Re claim 40, Zhu further teaches the apparatus is embodied as a mobile terminal (see figs. 1A and 31).

#### Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - 1. Determining the scope and contents of the prior art.
  - 2. Ascertaining the differences between the prior art and the claims at issue.
  - 3. Resolving the level of ordinary skill in the pertinent art.
  - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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7. Claims 7, 12, 19, 24, 31, 32, 38 and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zhu in view of Umeda (US 2006/0280363).

Re claims 7, 12, 19, 24, 31 and 38, Zhu teaches hand-supportable digital image-based bar code symbol reader that processing image digitally (global binarization, [02446]-[0248]) and automatically switching to one of a different barcode reading functions in response to input image being unsuccessful.

However, Zhu fails to teach switching to adaptive binarization.

Umeda teaches image processing apparatus using adaptive binarization (see [0223] and [0224]).

In view of Umeda's teachings, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the system and method of Zhu by employing adaptive binarization function as taught by Umeda so that the image can be decoded successfully and such modification would provide better reading/decoding.

Re claims 32 and 39, both Zhu and Umeda teach all subject matter claimed as applied above. Umeda further teaches wherein adaptive binarization comprises dividing the input image into regions and separately binarizing the regions of the input image based on a relationship between a moving sum of region values compared to an adaptive threshold (see figs. 25, 28A, 28B, [0079], [0083], [0200], [0201], [0209] and [0023]-[0224]).

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or disclosed by the Examiner.

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**Examiner's note**: Examiner has cited particular columns and line numbers in the references as applied to the claims above for the convenience of the applicant.

Although the specified citations are representative of the teachings of the art and are

Conclusion

applied to the specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses, to fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuyen Kim Vo whose telephone number is (571)270-1657. The examiner can normally be reached on Monday - Friday, 7:30a.m. - 5:00p.m., EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven S. Paik can be reached on (571) 272-2404. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/T. K. V./ Examiner, Art Unit 2887 /Thien M. Le/ Primary Examiner, Art Unit 2887

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Notice of References Cited	Application/Control No. 11/462,152	Reexamination		
Notice of Neterences Often	Examiner	Art Unit	Page 1 of 1	
	Tuyen Kim Vo	2887		
ILS PATENT DOCUMENTS				

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	Α	US-2005/0103858	05-2005	Zhu et al.	235/462.22
*	В	US-6,585,159	07-2003	Meier et al.	235/462.31
*	C	US-2002/0110269	08-2002	Floeder et al.	382/141
*	D	US-2003/0218069	11-2003	Meier et al.	235/462.25
*	Е	US-5,867,593	02-1999	Fukuda et al.	382/176
*	F	US-2007/0095916	05-2007	Joseph et al.	235/454
*	Œ	US-2006/0280363	12-2006	Umeda, Kiyoshi	382/167
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#### FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
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#### **NON-PATENT DOCUMENTS**

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)

Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.